

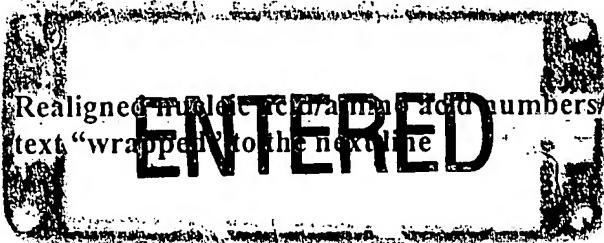
PCT/10

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/506,406

CRF Edit Date: 9/3/04

Edited by: AS



Realigned nucleic acid lines add numbers/text in cases where the sequence text "wrapped" to the next line

Corrected the SEQ ID NO. Sequence numbers edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

Inserted mandatory headings/numeric identifiers, specifically:

Moved responses to same line as heading/numeric identifier, specifically:

Other:

replaced "Home sapiens" with "Homo sapiens" (globally)



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/506,406

DATE: 09/13/2004

TIME: 16:34:52

Input Set : N:\AMC\506406.txt
 Output Set: N:\CRF4\09132004\J506406.raw

```

4 <110> APPLICANT: Swiercz, Rafal
5   Selman, Steven
6   Jankun, Jerzy
7   Chorostowska-Wynimko, Joanna
8   Skrzypczak-Jankun, Ewa
10 <120> TITLE OF INVENTION: MODIFIED PLASMINOGEN ACTIVATOR INHIBITOR
11   TYPE-1 AND METHODS BASED THEREON
14 <130> FILE REFERENCE: 9471-011-999
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/506,406
C--> 17 <141> CURRENT FILING DATE: 2004-09-01
19 <150> PRIOR APPLICATION NUMBER: PCT/US03/06679
20 <151> PRIOR FILING DATE: 2003-03-04
22 <150> PRIOR APPLICATION NUMBER: 60/361,670
23 <151> PRIOR FILING DATE: 2002-03-04
25 <160> NUMBER OF SEQ ID NOS: 3
27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 2876
31 <212> TYPE: DNA
32 <213> ORGANISM: Homo sapiens
34 <220> FEATURE:
35 <221> NAME/KEY: CDS
36 <222> LOCATION: (76)...(1281)
37 <223> OTHER INFORMATION: human PAI-1 plus 5' and 3' sequence
39 <400> SEQUENCE: 1
40 gaattcctgc agtcagcac ccggccgccag agcaggacga accgccaatc gcaaggcacc 60
41 tctgagaact tcagg atg cag atg tct cca gcc ctc acc tgc cta gtc ctg 111
42           Met Gln Met Ser Pro Ala Leu Thr Cys Leu Val Leu
43           1           5           10
45 ggc ctg gcc ctt gtc ttt ggt gaa ggg tct gct gtg cac cat ccc cca 159
46 Gly Leu Ala Leu Val Phe Gly Glu Gly Ser Ala Val His His Pro Pro
47           15          20          25
49 tcc tac gtg gcc cac ctg gcc tca gac ttc ggg gtg agg gtg ttt cag 207
50 Ser Tyr Val Ala His Leu Ala Ser Asp Phe Gly Val Arg Val Phe Gln
51           30          35          40
53 cag gtg gcg cag gcc tcc aag gac cgc aac gtg gtt ttc tca ccc tat 255
54 Gln Val Ala Gln Ala Ser Lys Asp Arg Asn Val Val Phe Ser Pro Tyr
55           45          50          55          60
57 ggg gtg gcc tcg gtg ttg gcc atg ctc cag ctg aca aca gga gga gaa 303
58 Gly Val Ala Ser Val Leu Ala Met Leu Gln Leu Thr Thr Gly Gly Glu
59           65          70          75
61 acc cag cag cag att caa gca gct atg gga ttc aag att gat gac aag 351
62 Thr Gln Gln Ile Gln Ala Ala Met Gly Phe Lys Ile Asp Asp Lys

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Input Set : N:\AMC\506406.txt
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63	80	85	90	
65	ggc atg gcc ccc gcc ctc cgg cat ctg tac aag gag ctc atg ggg cca			399
66	Gly Met Ala Pro Ala Leu Arg His Leu Tyr Lys Glu Leu Met Gly Pro			
67	95	100	105	
69	tgg aac aag gat gag atc agc acc aca gac gcg atc ttc gtc cag cgg			447
70	Trp Asn Lys Asp Glu Ile Ser Thr Thr Asp Ala Ile Phe Val Gln Arg			
71	110	115	120	
73	gat ctg aag ctg gtc cag ggc ttc atg ccc cac ttc agg ctg ttc			495
74	Asp Leu Lys Leu Val Gln Gly Phe Met Pro His Phe Phe Arg Leu Phe			
75	125	130	135	140
77	cgg agc acg gtc aag caa gtg gac ttt tca gag gtg gag aga gcc aga			543
78	Arg Ser Thr Val Lys Gln Val Asp Phe Ser Glu Val Glu Arg Ala Arg			
79	145	150	155	
81	ttc atc atc aat gac tgg gtg aag aca cac aca aaa ggt atg atc agc			591
82	Phe Ile Ile Asn Asp Trp Val Lys Thr His Thr Lys Gly Met Ile Ser			
83	160	165	170	
85	aac ttg ctt ggg aaa gga gcc gtg gac cag ctg aca cgg ctg gtg ctg			639
86	Asn Leu Leu Gly Lys Gly Ala Val Asp Gln Leu Thr Arg Leu Val Leu			
87	175	180	185	
89	gtg aat gcc ctc tac ttc aac ggc cag tgg aag act ccc ttc ccc gac			687
90	Val Asn Ala Leu Tyr Phe Asn Gly Gln Trp Lys Thr Pro Phe Pro Asp			
91	190	195	200	
93	tcc agc acc cac cgc cgc ctc ttc cac aaa tca gac ggc agc act gtc			735
94	Ser Ser Thr His Arg Arg Leu Phe His Lys Ser Asp Gly Ser Thr Val			
95	205	210	215	220
97	tct gtg ccc atg atg gct cag acc aac aag ttc aac tat act gag ttc			783
98	Ser Val Pro Met Met Ala Gln Thr Asn Lys Phe Asn Tyr Thr Glu Phe			
99	225	230	235	
101	acc acg ccc gat ggc cat tac tac gac atc ctg gaa ctg ccc tac cac			831
102	Thr Thr Pro Asp Gly His Tyr Tyr Asp Ile Leu Glu Leu Pro Tyr His			
103	240	245	250	
105	ggg gac acc ctc agc atg ttc att gct gcc cct tat gaa aaa gag gtg			879
106	Gly Asp Thr Leu Ser Met Phe Ile Ala Ala Pro Tyr Glu Lys Glu Val			
107	255	260	265	
109	cct ctc tct gcc ctc acc aac att ctg agt gcc cag ctc atc agc cac			927
110	Pro Leu Ser Ala Leu Thr Asn Ile Leu Ser Ala Gln Leu Ile Ser His			
111	270	275	280	
113	tgg aaa ggc aac atg acc agg ctg ccc cgc ctc ctg gtt ctg ccc aag			975
114	Trp Lys Gly Asn Met Thr Arg Leu Pro Arg Leu Leu Val Leu Pro Lys			
115	285	290	295	300
117	ttc tcc ctg gag act gaa gtc gac ctc agg aag ccc cta gag aac ctg			1023
118	Phe Ser Leu Glu Thr Glu Val Asp Leu Arg Lys Pro Leu Glu Asn Leu			
119	305	310	315	
121	gga atg acc gac atg ttc aga cag ttt cag gct gac ttc acg agt ctt			1071
122	Gly Met Thr Asp Met Phe Arg Gln Phe Gln Ala Asp Phe Thr Ser Leu			
123	320	325	330	
125	tca gac caa gag cct ctc cac gtc gcg cag gcg ctg cag aaa gtg aag			1119
126	Ser Asp Gln Glu Pro Leu His Val Ala Gln Ala Leu Gln Lys Val Lys			
127	335	340	345	

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Input Set : N:\AMC\506406.txt
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129 atc gag gtg aac gag agt ggc acg gtg gcc tcc tca tcc aca gct gtc	1167
130 Ile Glu Val Asn Glu Ser Gly Thr Val Ala Ser Ser Ser Thr Ala Val	
131 350 355 360	
133 ata gtc tca gcc.cgc atg gcc ccc gag gag atc atc atg gac aga ccc	1215
134 Ile Val Ser Ala Arg Met Ala Pro Glu Glu Ile Ile Met Asp Arg Pro	
135 365 370 375 380	
137 ttc ctc ttt gtg gtc cg ^g cac aac ccc aca gga aca gtc ctt ttc atg	1263
138 Phe Leu Phe Val Val Arg His Asn Pro Thr Gly Thr Val Leu Phe Met	
139 385 390 395	
141 ggc caa gtg atg gaa ccc tgaccctggg gaaagacgcc ttcatctggg	1311
142 Gly Gln Val Met Glu Pro	
143 400	
145 acaaaaactgg agatgcacg ggaaagaaga aactccgaag aaaagaattt tagtgttaat	1371
146 gactcttct gaaggaagag aagacatttg cctttgtta aaagatggta aaccagatct	1431
147 gtctccaaga ccttggcctc tccttggagg accttttaggt caaaactccct agtctccacc	1491
148 tgagaccctg ggagagaagt ttgaagcaca actccctaa ggtctccaaa ccagacggtg	1551
149 acgcctgcgg gaccatctgg ggcacctgtt tccacccgtc tctctgccc ctgggtctg	1611
150 cagacctgg tccccactgag gccctttgca ggatggaact acggggctta caggagctt	1671
151 tgtgtgcctg gtagaaaacta tttctgttcc agtacatttgc ccatcactt tgcactgcct	1731
152 gcccacccggg aggaggctgg tgacaggcaca aaggccagtg gaagaaacac cctttcatct	1791
153 cagagtccac tgtggcactg gccacccctc cccagttacag gggtgctgca ggtggcagag	1851
154 tgaatgtccc ccatcatgtg gcccaactct cctggcctgg ccatctccct ccccaqaaac	1911
155 agtgtgcattt ggttattttg gagttaggt gactgttta ctcattgaag cagattctg	1971
156 cttcctttta ttttatagg aatagaggaa gaaatgtcag atgcgtgccc agctcttcac	2031
157 ccccaatct cttgggggg aggggtgtac ctaaatattt atcatatct tgccttgag	2091
158 tgcttggtag agagaaagag aactactaag gaaaataata ttattnaac tcgtcctag	2151
159 tgtttctttg tggtctgtt caccgtatct caggaagtcc agccacttga ctggcacaca	2211
160 cccctccggc catccagcgat gacggagccc acactgccc acgtggccg cctgagaccc	2271
161 tcgcgcgcgc gcgcgcgcgc gcgcgcgcgc tttccctt gatggaaatt gaccatacaa	2331
162 tttcatcctc cttcaggggc tcaaaaggac ggagtgggg gacagagact cagatgagga	2391
163 cagagtgggt tccaaatgtgt tcaatagatt taggagcaga aatgcacagg gctgcac	2451
164 ctaccaggac agaactttcc ccaattacag ggtgactcac agccgcattt gtgactca	2511
165 tcaatgtgtc atttccggct gctgtgtgt agcagtggac acgtgagggg ggggtgggtg	2571
166 agagagacag gcagctcgga ttcaactacc ttagataata tttctaaaa cctaccagcc	2631
167 agagggtagg gcacaaaagat ggtatgtatg cactttggg ggcacaggcg ggaggattgc	2691
168 ttgagcccaag gagttcaaga ccacgcctgg caacatacca agaccccgat ctctttaaaa	2751
169 atatatatat tttaaatata ottaaatata tatttctaatt atctttaaat atatatatat	2811
170 attttaaaga ccaattttagt ggagaattgc acacagatgt gaaatgaatg taatctaata	2871
171 gaagc	2876
173 <210> SEQ ID NO: 2	
174 <211> LENGTH: 402	
175 <212> TYPE: PRT	
176 <213> ORGANISM: Homo sapiens	
178 <220> FEATURE:	
179 <223> OTHER INFORMATION: human PAI-1 amino acid sequence, including signal peptide	
181 <400> SEQUENCE: 2	
182 Met Gln Met Ser Pro Ala Leu Thr Cys Leu Val Leu Gly Leu Ala Leu	
183 1 5 10 15	
184 Val Phe Gly Glu Gly Ser Ala Val His His Pro Pro Ser Tyr Val Ala	

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Input Set : N:\AMC\506406.txt
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185	20	25	30	
186	His Leu Ala Ser Asp Phe Gly Val Arg Val Phe Gln Gln Val Ala Gln			
187	35	40	45	
188	Ala Ser Lys Asp Arg Asn Val Val Phe Ser Pro Tyr Gly Val Ala Ser			
189	50	55	60	
190	Val Leu Ala Met Leu Gln Leu Thr Thr Gly Gly Glu Thr Gln Gln Gln			
191	65	70	75	80
192	Ile Gln Ala Ala Met Gly Phe Lys Ile Asp Asp Lys Gly Met Ala Pro			
193	85	90	95	
194	Ala Leu Arg His Leu Tyr Lys Glu Leu Met Gly Pro Trp Asn Lys Asp			
195	100	105	110	
196	Glu Ile Ser Thr Thr Asp Ala Ile Phe Val Gln Arg Asp Leu Lys Leu			
197	115	120	125	
198	Val Gln Gly Phe Met Pro His Phe Phe Arg Leu Phe Arg Ser Thr Val			
199	130	135	140	
200	Lys Gln Val Asp Phe Ser Glu Val Glu Arg Ala Arg Phe Ile Ile Asn			
201	145	150	155	160
202	Asp Trp Val Lys Thr His Thr Lys Gly Met Ile Ser Asn Leu Leu Gly			
203	165	170	175	
204	Lys Gly Ala Val Asp Gln Leu Thr Arg Leu Val Leu Val Asn Ala Leu			
205	180	185	190	
206	Tyr Phe Asn Gly Gln Trp Lys Thr Pro Phe Pro Asp Ser Ser Thr His			
207	195	200	205	
208	Arg Arg Leu Phe His Lys Ser Asp Gly Ser Thr Val Ser Val Pro Met			
209	210	215	220	
210	Met Ala Gln Thr Asn Lys Phe Asn Tyr Thr Glu Phe Thr Thr Pro Asp			
211	225	230	235	240
212	Gly His Tyr Tyr Asp Ile Leu Glu Leu Pro Tyr His Gly Asp Thr Leu			
213	245	250	255	
214	Ser Met Phe Ile Ala Ala Pro Tyr Glu Lys Glu Val Pro Leu Ser Ala			
215	260	265	270	
216	Leu Thr Asn Ile Leu Ser Ala Gln Leu Ile Ser His Trp Lys Gly Asn			
217	275	280	285	
218	Met Thr Arg Leu Pro Arg Leu Leu Val Leu Pro Lys Phe Ser Leu Glu			
219	290	295	300	
220	Thr Glu Val Asp Leu Arg Lys Pro Leu Glu Asn Leu Gly Met Thr Asp			
221	305	310	315	320
222	Met Phe Arg Gln Phe Gln Ala Asp Phe Thr Ser Leu Ser Asp Gln Glu			
223	325	330	335	
224	Pro Leu His Val Ala Gln Ala Leu Gln Lys Val Lys Ile Glu Val Asn			
225	340	345	350	
226	Glu Ser Gly Thr Val Ala Ser Ser Ser Thr Ala Val Ile Val Ser Ala			
227	355	360	365	
228	Arg Met Ala Pro Glu Glu Ile Ile Met Asp Arg Pro Phe Leu Phe Val			
229	370	375	380	
230	Val Arg His Asn Pro Thr Gly Thr Val Leu Phe Met Gly Gln Val Met			
231	385	390	395	400
232	Glu Pro			
235	<210> SEQ ID NO: 3			

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/506,406

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Input Set : N:\AMC\506406.txt
Output Set: N:\CRF4\09132004\J506406.raw

236 <211> LENGTH: 379
 237 <212> TYPE: PRT
 238 <213> ORGANISM: Homo sapiens
 240 <220> FEATURE:
 241 <223> OTHER INFORMATION: human PAI-1 mature amino acid sequence
 243 <400> SEQUENCE: 3
 244 Val His His Pro Pro Ser Tyr Val Ala His Leu Ala Ser Asp Phe Gly
 245 1 5 10 15
 246 Val Arg Val Phe Gln Gln Val Ala Gln Ala Ser Lys Asp Arg Asn Val
 247 20 25 30
 248 Val Phe Ser Pro Tyr Gly Val Ala Ser Val Leu Ala Met Leu Gln Leu
 249 35 40 45
 250 Thr Thr Gly Gly Glu Thr Gln Gln Ile Gln Ala Ala Met Gly Phe
 251 50 55 60
 252 Lys Ile Asp Asp Lys Gly Met Ala Pro Ala Leu Arg His Leu Tyr Lys
 253 65 70 75 80
 254 Glu Leu Met Gly Pro Trp Asn Lys Asp Glu Ile Ser Thr Thr Asp Ala
 255 85 90 95
 256 Ile Phe Val Gln Arg Asp Leu Lys Leu Val Gln Gly Phe Met Pro His
 257 100 105 110
 258 Phe Phe Arg Leu Phe Arg Ser Thr Val Lys Gln Val Asp Phe Ser Glu
 259 115 120 125
 260 Val Glu Arg Ala Arg Phe Ile Ile Asn Asp Trp Val Lys Thr His Thr
 261 130 135 140
 262 Lys Gly Met Ile Ser Asn Leu Leu Gly Lys Gly Ala Val Asp Gln Leu
 263 145 150 155 160
 264 Thr Arg Leu Val Leu Val Asn Ala Leu Tyr Phe Asn Gly Gln Trp Lys
 265 165 170 175
 266 Thr Pro Phe Pro Asp Ser Ser Thr His Arg Arg Leu Phe His Lys Ser
 267 180 185 190
 268 Asp Gly Ser Thr Val Ser Val Pro Met Met Ala Gln Thr Asn Lys Phe
 269 195 200 205
 270 Asn Tyr Thr Glu Phe Thr Thr Pro Asp Gly His Tyr Tyr Asp Ile Leu
 271 210 215 220
 272 Glu Leu Pro Tyr His Gly Asp Thr Leu Ser Met Phe Ile Ala Ala Pro
 273 225 230 235 240
 274 Tyr Glu Lys Glu Val Pro Leu Ser Ala Leu Thr Asn Ile Leu Ser Ala
 275 245 250 255
 276 Gln Leu Ile Ser His Trp Lys Gly Asn Met Thr Arg Leu Pro Arg Leu
 277 260 265 270
 278 Leu Val Leu Pro Lys Phe Ser Leu Glu Thr Glu Val Asp Leu Arg Lys
 279 275 280 285
 280 Pro Leu Glu Asn Leu Gly Met Thr Asp Met Phe Arg Gln Phe Gln Ala
 281 290 295 300
 282 Asp Phe Thr Ser Leu Ser Asp Gln Glu Pro Leu His Val Ala Gln Ala
 283 305 310 315 320
 284 Leu Gln Lys Val Lys Ile Glu Val Asn Glu Ser Gly Thr Val Ala Ser
 285 325 330 335
 286 Ser Ser Thr Ala Val Ile Val Ser Ala Arg Met Ala Pro Glu Glu Ile

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/506,406

DATE: 09/13/2004

TIME: 16:34:53

Input Set : N:\AMC\506406.txt

Output Set: N:\CRF4\09132004\J506406.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number

L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date